

**Notice of Allowability**

Application No.

09/163,925

Examiner

Phuongchau Ba Nguyen

Applicant(s)

KASPER, CHRISTIAN D.

Art Unit

2665

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2-6-3.
2. ☒ The allowed claim(s) is/are 1-27,29-32,34-38,40-45; Renumbered as 1-42 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

### REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Regarding claims 1–9, the prior art fails to teach or suggest a method of routing network-based data arranged in frames comprising the steps of “transferring a burst of data after receiving a start of packet interrupt, including preselected address fields, from the FIFO receive memory to an external shared system memory that exists between the network device and a host processor,” which is considered in combination with other limitations, as specified in the independent claim 1.

Regarding claims 10–18, the prior art fails to teach or suggest a method of controlling network data flow arranged in frames comprising the steps of “transferring a burst of data after receiving a start of packet interrupt, including preselected address fields, from the FIFO receive memory to a shared system memory that exists between a host processor and the network device,” which is considered in combination with other limitations, as specified in the independent claim 10.

Regarding claims 19–26, the prior art fails to teach or suggest a method of routing network based data arranged in frames comprising the steps of “transferring a burst of data, including preselected address field after receiving a start of packet interrupt, from the FIFO receive memory to a shared system memory that exists between the network device and the host processor,” which is considered in combination with other limitations, as specified in claim 19.

Regarding claims 27, 29–31, the prior art fails to teach or suggest a method for routing network based data arranged in frames comprising “a communication processor for selecting the amount of data to be transferred from the FIFO receive memory to the shared system memory based on the desired address field to be analyzed by the host processor after receiving a start of packet interrupt,” which is considered in combination with other limitations, as specified in claim 27.

Regarding claim 32, 34–37, the prior art fails to teach or suggest a system for routing network based data arranged in frames comprising “a communication processor for selecting the amount of data to be transferred from the receive memory based on the desired address fields to be analyzed by

the host processor after receiving a start of packet interrupt," which is considered in combination with other limitations, as specified in the independent claim 32.

Regarding claims 38, 40-42, the prior art fails to teach or suggest a network controller having "a communication processor for selecting the amount of data to be transferred from the FIFO receive memory based on the desired address fields to be analyzed by a host processor after receiving a start of packet interrupt," which is considered in combination with other limitations, as specified in the independent claim 38.

Regarding claim 43, the prior art fails to teach or suggest a system for routing network based data arranged in frames comprising "an interrupt bus connected between the FIFO receive memory and communication processor, wherein said FIFO receive memory includes an interrupt generator for generating an interrupt to the communication processor along the bus," which is considered in combination with other limitations, as specified in the independent claim 43.

Regarding claim 44, the prior art fails to teach or suggest a system for routing network based data arranged in frames comprising “an interrupt bus connected between the FIFO receive memory and communication processor, wherein said ports include an interrupt generator for generating an interrupt to the communications processor along the bus,” which is considered in combination with other limitations, as specified in the independent claim 44.

Regarding claim 45, the prior art fails to teach or suggest a network controller having “an interrupt bus connected between the FIFO receive memory and communication processor, wherein said ports include an interrupt generator for generating an interrupt to the communications processor along the bus,” which is considered in combination with other limitations, as specified in the independent claim 45.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchau Ba Nguyen whose telephone number is 571-272-3148. The examiner can normally be reached on Monday-Friday from 10:00 a.m. to 2:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

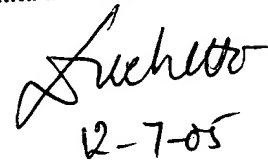
Application/Control Number: 09/163,925  
Art Unit: 2665

Page 7



Phuongchau Ba Nguyen  
Examiner  
Art Unit 2665

**DUCHO  
PRIMARY EXAMINER**

  
12-7-05